## Math Virtual Learning

 Grade 7 Area of CirclesMay 7, 2020

## Grade 7/Area of Circles <br> Lesson: May 7, 2020

Objective/Learning Target:
Find the area of a circle.

Let's Get Started:
Watch Video: Area of a Circle

## Quick Video Review:

Below are the most important concepts from the video you just watched.

## Area of Circle



## Practice:

Find the value of these numbers, raised to the 2nd power. Area of Circles

## Warm Up Simplify.

1. $8^{2}$
2. $12^{2}$
3. $6.2^{2}$
4. $7.5^{2}$

## Practice:

Find the value of these numbers, raised to the 2nd power.

## Area of Circles

## Warm Up Simplify.

| 1. $8^{2}$ | 64 | $8 \times 8=64$ |
| :--- | :--- | :--- |
| 2. $12^{2}$ | 144 | $12 \times 12=144$ |
| 3. $6.2^{2}$ | 38.44 | $6.2 \times 6.2=38.44$ |
| 4. $7.5^{2}$ | 56.25 | $7.5 \times 7.5=56.25$ |

## Just another reminder that...

## Area of Circles

## AREA OF A CIRCLE

The area $A$ of a circle is the product of $\pi$ and the square of the circle's radius $r$.
$A=\pi r^{2}$
$A=\pi r^{2}$


## Practice: <br> Go to this website: Khan Academy Area of a Circle

1. Look at the question carefully.
2. Use the "Show Calculator" button for calculator assistance.
3. Use 3.14 as your value for Pi .
4. If you get stuck, click on the blue "watch a video or use a hint" link.
5. Answer all 7 questions.

## Practice:

Answer the question on a piece of paper. Use 3.14 for $\mathrm{Pi}(\pi)$.

Area of Circles

Find the area of the circle to the nearest tenth. Use 3.14 for $\pi$.


## Practice:

Answer the question on a piece of paper. Use 3.14 for $\mathrm{Pi}(\pi)$.

## Area of Circles

Find the area of the circle to the nearest tenth. Use $\mathbf{3 . 1 4}$ for $\pi$.

| $A$ | $=\pi r^{2}$ |  | Use the formula. |
| ---: | :--- | ---: | :--- |
| $A$ | $\approx 3.14 \cdot 7^{2}$ |  | Substitute 7 for $r$. |
| $A$ | $\approx 3.14 \cdot 49$ |  | Evaluate the power. |
| $A$ | $\approx 153.86$ |  | Multiply. |

## Remember!

The order of operations calls for evaluating the exponents before multiplying.

## Practice:

## Answer the question on a piece of paper. Use 3.14 for $\mathrm{Pi}(\pi)$.

## Area of Circles

Find the area of the circle to the nearest tenth. Use $\mathbf{3 . 1 4}$ for $\boldsymbol{\pi}$.


## Practice:

Answer the question on a piece of paper. Use 3.14 for $\mathrm{Pi}(\pi)$.

Area of Circles

Find the area of the circle to the nearest tenth. Use $\mathbf{3 . 1 4}$ for $\pi$.


The area of the circle is about $254.3 \mathrm{ft}^{2}$.

## Practice:

Answer the question on a piece of paper. Use 3.14 for $\mathrm{Pi}(\pi)$.

## Area of Circles

Find the area of the circle to the nearest tenth. Use $\mathbf{3 . 1 4}$ for $\boldsymbol{\pi}$.


## Practice:

Answer the question on a piece of paper. Use 3.14 for $\mathrm{Pi}(\pi)$.

## Area of Circles

Find the area of the circle to the nearest tenth. Use $\mathbf{3 . 1 4}$ for $\boldsymbol{\pi}$.


The area of the circle is about $314 \mathrm{~cm}^{2}$.

## Practice:

Answer the question on a piece of paper. Use 3.14 for $\mathrm{Pi}(\pi)$.

Area of Circles

Find the area of the circle to the nearest tenth. Use $\mathbf{3 . 1 4}$ for $\boldsymbol{\pi}$.


## Practice:

Answer the question on a piece of paper. Use 3.14 for $\mathrm{Pi}(\pi)$.

## Area of Circles

Find the area of the circle to the nearest tenth. Use 3.14 for $\pi$.


The area of the circle is about $113.0 \mathrm{ft}^{2}$.

## Additional Practice:

Click on the links below to get additional practice and to check your understanding!

Quizizz - Practice<br>IXL - Practice<br>Pro Profs - Practice

Open Middle - Challenge

